

MUHAMMAD AMIRUL AIMAN MOHD AZHAR

Software Engineer

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CAREER OBJECTIVE

A Computer Science graduate and Software Engineer with hands-on experience building and maintaining enterprise-grade web and mobile applications, including RESTful API design, full-stack development, and system integration. Strong foundation in Java, JavaScript, and modern frameworks, with a track record of resolving defects, improving performance, and delivering reliable, scalable solutions. Seeking a Software Engineer role where technical rigor, test-driven quality, and collaborative teamwork can contribute to high-quality software products.

SKILLS AND PROFICIENCY

- Programming Languages: Java, JavaScript, PHP, HTML, CSS, Visual Basic .NET
- Frameworks & Libraries: Laravel, Blade, Node.js, Vue.js, Tailwind CSS, Vite
- Databases: MySQL, PostgreSQL, MongoDB
- Tools & Platforms: Git, GitHub, Docker, Nginx, Redis, Android Studio, Flutter, React Native, Figma, Unity, Firebase
- Core Competencies: REST API design, Laravel Sanctum authentication, queue-based async processing, CRUD application development, production incident response and debugging, legacy system and data-integrity recovery, PDF/DOCX document generation, payment gateway integration, data structures and algorithms, software testing and code quality
- Soft Skills: problem-solving and analytical thinking, debugging and troubleshooting, team collaboration, clear technical and non-technical communication
- Languages: Fluent in Bahasa Melayu; intermediate in English
- Productivity Tools: Microsoft Word, Excel, PowerPoint

EDUCATION

Bachelor of Computer Science with Honours (Software Technology) <i>Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor</i>	Oct 2022 – Nov 2025
Diploma of Information Technology (Digital Technology) <i>Politeknik Ungku Omar, Ipoh, Perak</i>	Jun 2019 – Feb 2022
• Received Head of Department's Award in Semester 2 through Semester 6	
Malaysian Certificate of Education (SPM) <i>SMK Bukit Changgang, Banting, Selangor</i>	Jan 2014 – Dec 2018

WORK EXPERIENCE

Software Developer <i>Swiss Link Communications Sdn Bhd, Cyberjaya</i>	Jan 2025 – Present
• Developed and deployed new system features and enhancements across web and mobile applications, improving functionality and supporting evolving business requirements for internal users and clients. • Designed and implemented RESTful APIs to enable seamless system integration and secure data communication, improving interoperability between multiple applications. • Maintained and optimized existing systems by resolving defects, implementing client-requested improvements, and enhancing performance, resulting in more stable and responsive applications.	

- Led the migration of applications from legacy environments to modern platforms and developed a new company mobile application, supporting business operations while ensuring system reliability and scalability.
- Built Öuruz Bisnis, an AI-assisted meeting-minutes SaaS for Malaysian SME admin teams, using Laravel 13, PHP 8.3, Tailwind CSS, and queue-based async processing, live at bisnis.ouruz.my.
- Shipped the end-to-end workflow: voice/text capture, AI draft generation, admin review and edit, a searchable meeting repository, and branded PDF/DOCX export (DomPDF, PHPWord).
- Implemented Freemium subscription tiers with ToyyibPay billing, per-account data isolation, and activity audit logging to support security and Malaysian compliance (PDPA) expectations.
- Delivered a trilingual UI (English, Bahasa Malaysia, Chinese), a REST API secured with Laravel Sanctum, secure share links, and Docker-based deployment to production.

Full-Stack Development (Laravel/PHP, MongoDB, Android/Java)

- Built and shipped features end-to-end across a Laravel/MongoDB admin backend and a native Android field-enforcement app, including a new sysadmin-only analytics dashboard tracking app-version adoption across the enforcement workforce.
- Designed a cross-platform feature (Android to API to web dashboard) to report and visualize mobile app version adoption, enabling data-driven rollout decisions instead of guesswork.
- Redesigned multiple record-editing interfaces (compound/notice management) to a modern, consistent UI system based on iterative stakeholder feedback across multiple review cycles.

Production Incident Response & Debugging

- Diagnosed and resolved a live production outage (fatal PHP errors blocking all users) by tracing the root cause through a corrupted dependency and autoloader state, without direct server access, guiding a non-technical operator through Git and Composer recovery steps in real time.
- Root-caused a recurring HTTPS/mixed-content bug by replacing unreliable environment-based detection with a request-based check, eliminating a class of production-only bugs that did not reproduce locally.
- Identified and fixed a broken Git submodule reference in a critical PDF-generation dependency before it reached production, a silent failure that would have broken document generation on any fresh deployment.

Data Integrity & Legacy System Recovery

- Investigated and resolved a data-integrity issue stemming from historically non-unique record identifiers, building tooling (diagnostic commands, a duplicate-record picker, a shared-evidence-pool photo review UI) that let staff safely reconcile years of legacy records without data loss.
- Designed a graceful degradation path for oversized PDF generation (413 errors) that let enforcement staff manually curate evidence attachments instead of the system failing outright.

Process & UX Improvement

- Simplified a 4-field vehicle-data entry form into a single free-text field based on direct end-user (enforcement officer) feedback, while preserving full backward compatibility with existing printed and PDF document formats and years of historical records.
- Expanded vehicle model reference data across 6 vehicle categories (cars, motorcycles, trucks, vans, buses, 4WDs) to reflect the full range of vehicles actually encountered in the field, reducing reliance on free-text fallbacks.

Internship Trainee

Sept 2024 – Jan 2025

Cyberjaya

- Collaborated closely with development team members to support daily system tasks, demonstrating strong work ethic and adaptability while gaining hands-on experience in real-world software development environments.
- Authored and finalized multiple user manuals and technical documents for internal systems, incorporating stakeholder feedback to improve usability, accuracy, and alignment with project requirements.

- Performed bug fixing and error resolution across several existing systems, contributing to improved system stability, reliability, and smoother user experience.
- Supported system documentation and maintenance by generating database structure and program file reports for E-DND systems and applying version control practices using Git to ensure organized, traceable development work.

Internship Trainee

Sept 2021 – Feb 2022

Cyberjaya

- Developed and integrated front-end features using HTML, CSS, and JavaScript, supporting API integration and improving website functionality and user interaction efficiency.
- Designed and built a full CRUD web application, strengthening backend logic and database management skills while supporting reliable data creation, retrieval, updating, and deletion.
- Applied Java programming and object-oriented principles through hands-on collaboration with experienced developers, improving debugging accuracy and understanding of real-world application development.
- Contributed positively to team culture by collaborating effectively with colleagues, improving English communication and translation skills, and actively participating in company programs, achieving Top 10 placement in a company-wide virtual run event.

REFERENCES

Dr. Hadi Affendy Dahlan

Supervisor

Universiti Kebangsaan Malaysia (UKM)

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